



June 2003

# *Blackberry Creek Watershed Alternative Futures Analysis*



# Alternative Futures Assessment

*Carl Steinitz*

How should the state of the landscape be described ?

How does the landscape work?

How does one judge whether the current state of the landscape is working well?

By what actions might the current landscape be altered?

What predictable differences might the changes cause?

How is a decision to change (or conserve) the landscape to be made?





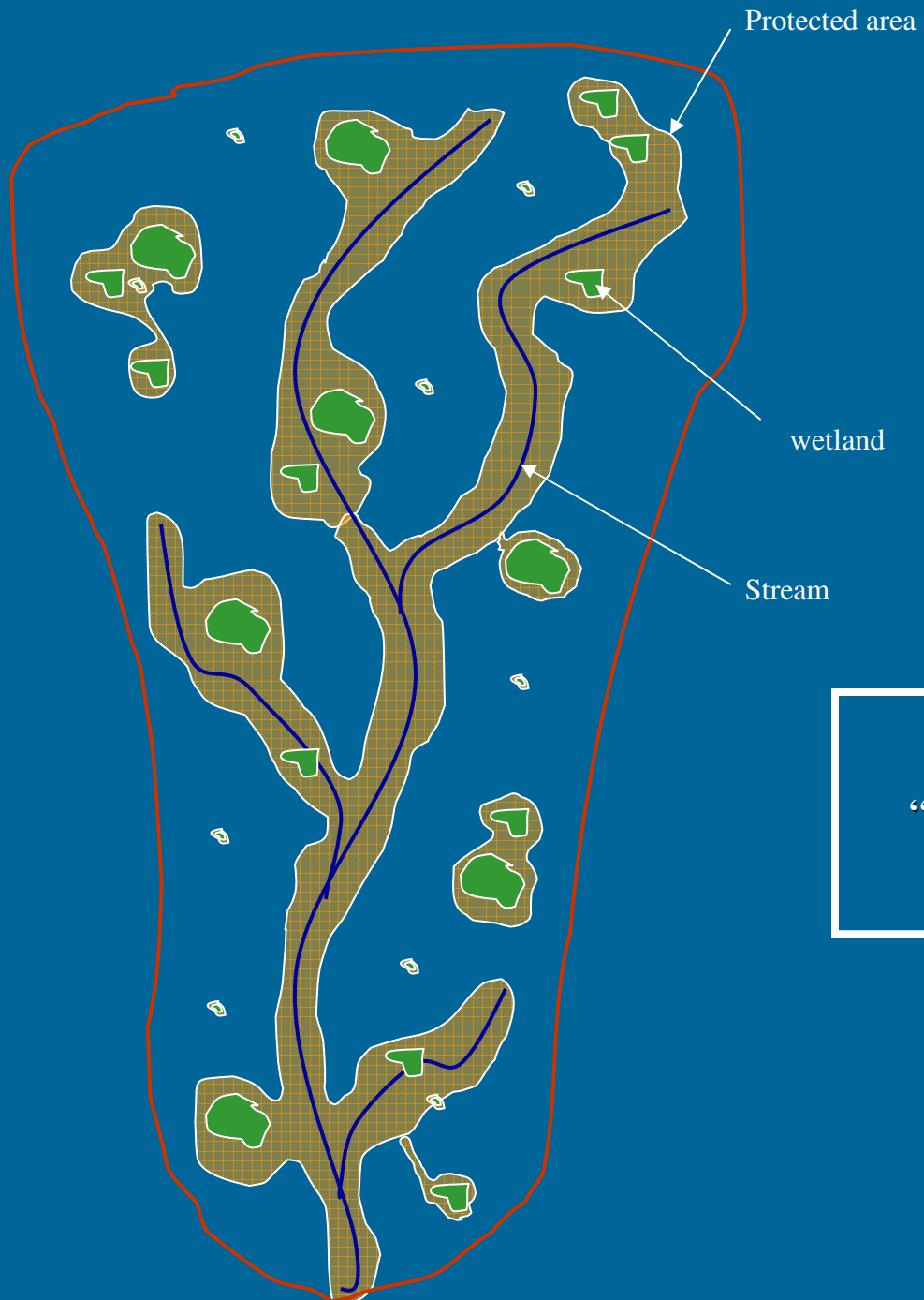






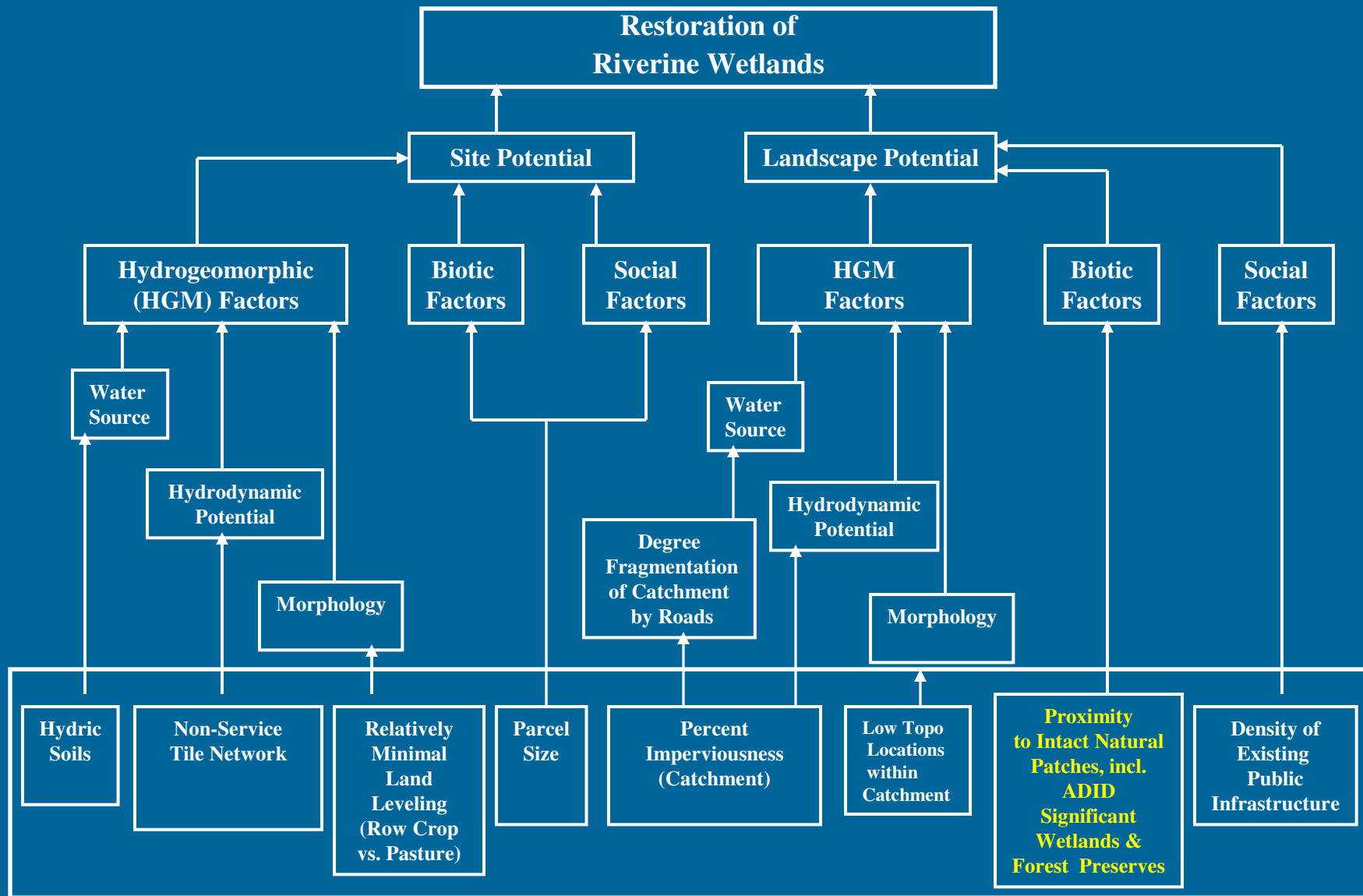




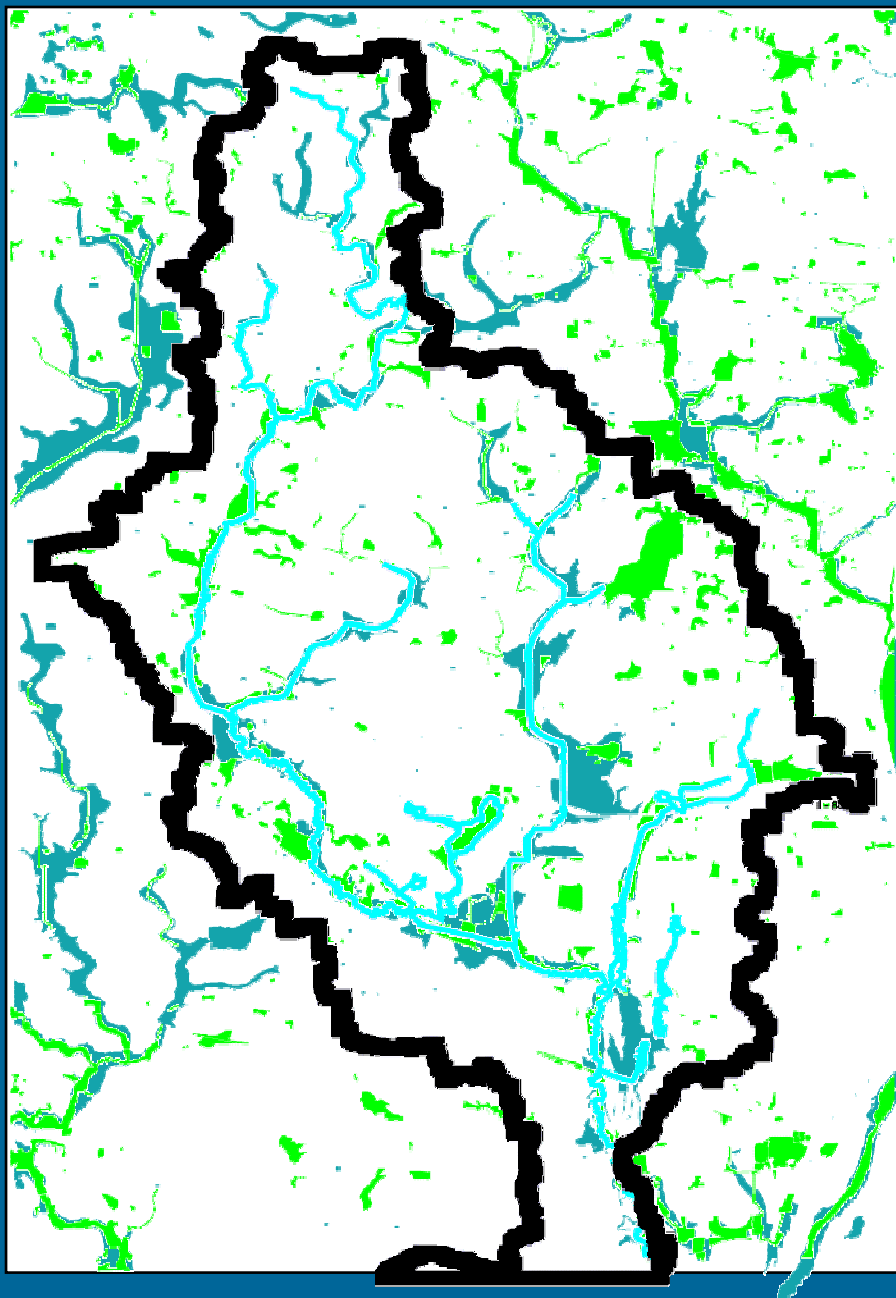


Evaluate Different  
“Green-infrastructure”  
Scenarios

# Allocation of Depressional Wetland Restoration Projects for the Blackberry Creek Watershed: A Conceptual Model







## Water Resources



Watershed Boundary



Blackberry Creek



Floodplain

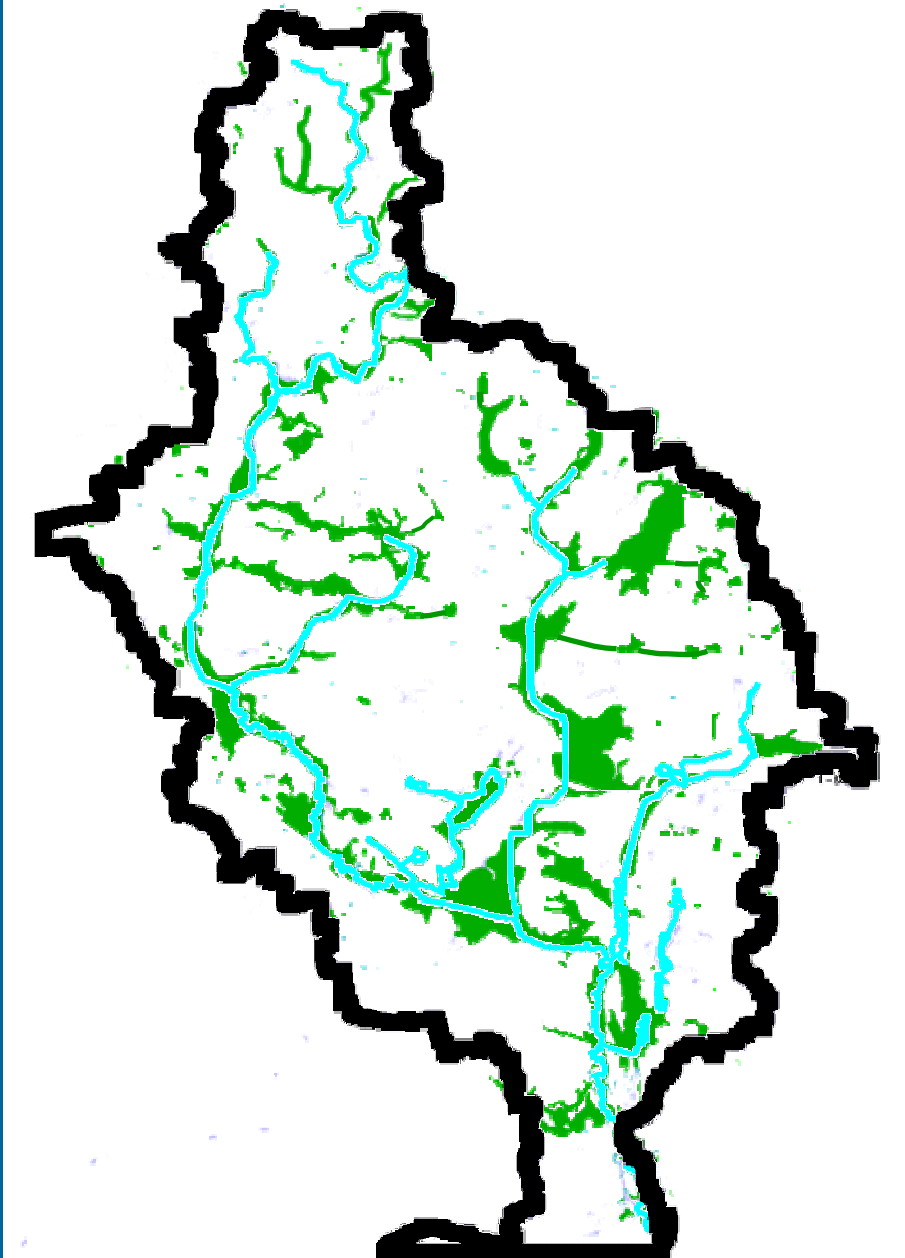


Wetlands



Hydric Soils

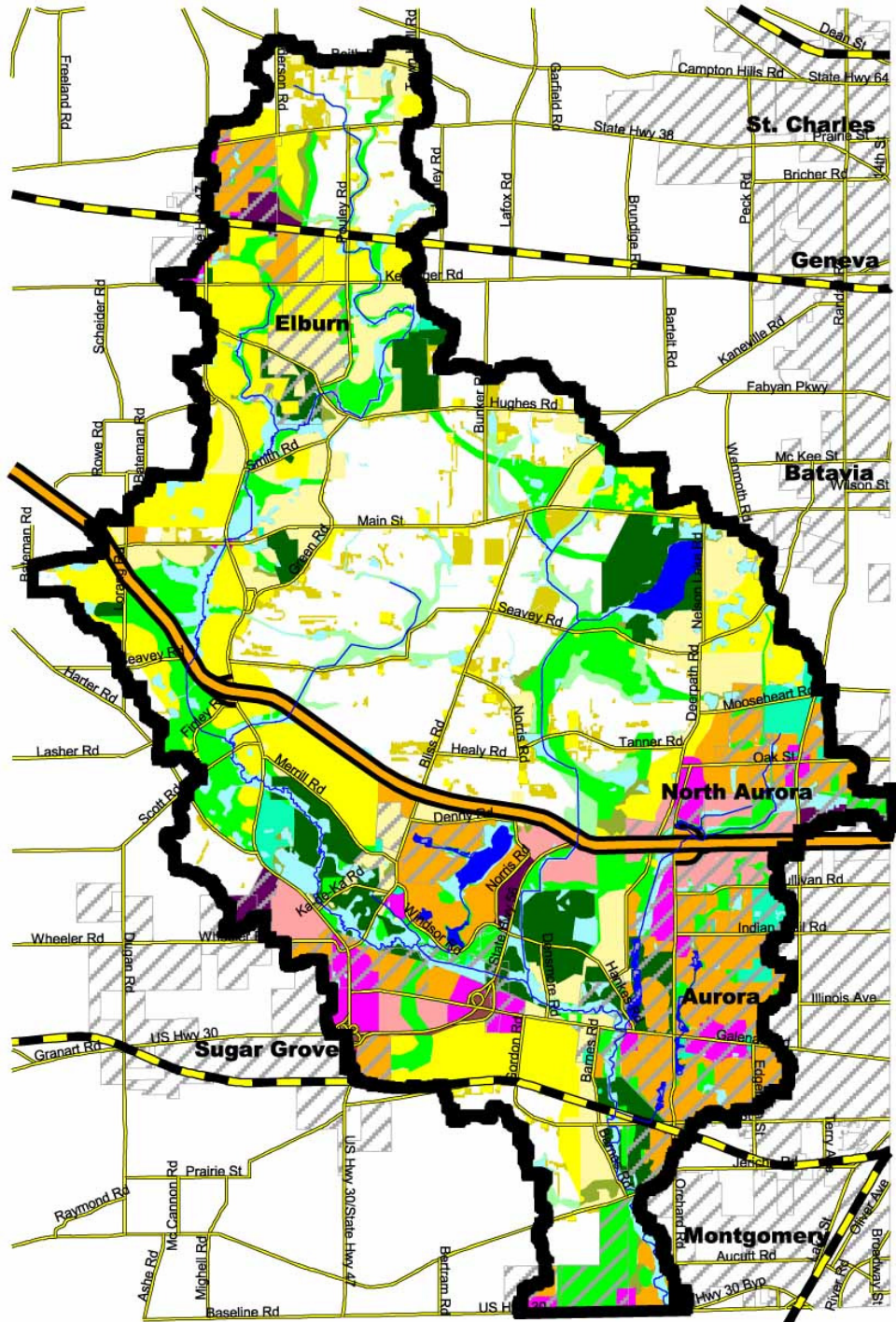
# Water Resources Open Space Plan




















# Conservation Scenario



## LEGEND

-  Watershed Boundary
-  Blackberry Creek
-  Metra Rail Road
-  Highway
-  Major Road
-  Municipalities

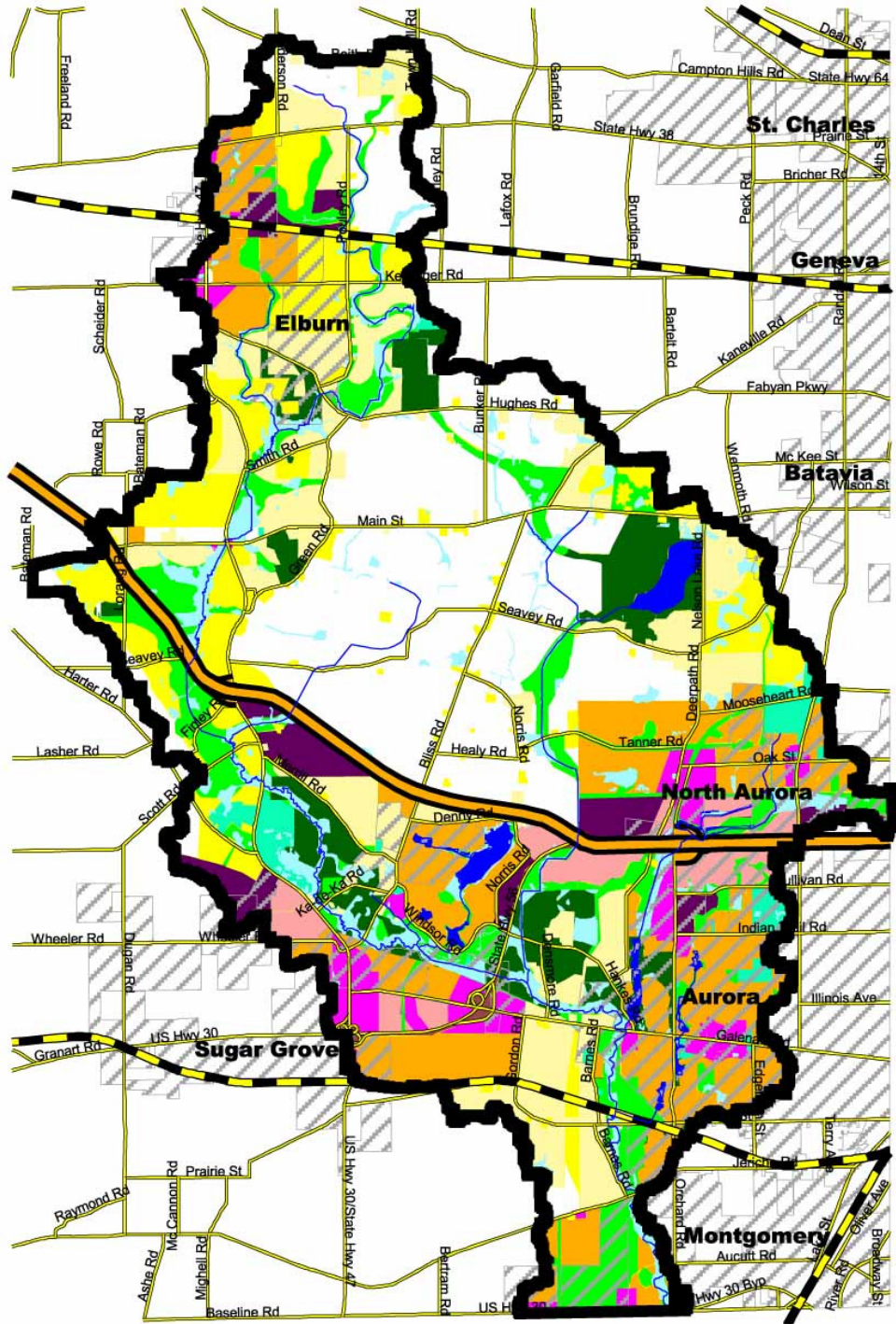
## Conservation Scenario Land Use

-  Commercial
-  Industrial
-  Office/Research
-  Institutional
-  Transportation
-  Urban Residential
-  Rural Residential
-  Estate Residential
-  Agriculture
-  Existing Rural Grassland
-  Forest Preserve
-  Proposed Open Space
-  Agriculture Resource Buffer
-  Additional Open Space
-  Wetland
-  Water





# Currently Planned Future Land Use





# Moderate Density Residential

## Conventional

## Conservation





# Stormwater Management BMPs

Moderate Density Residential

## Conventional

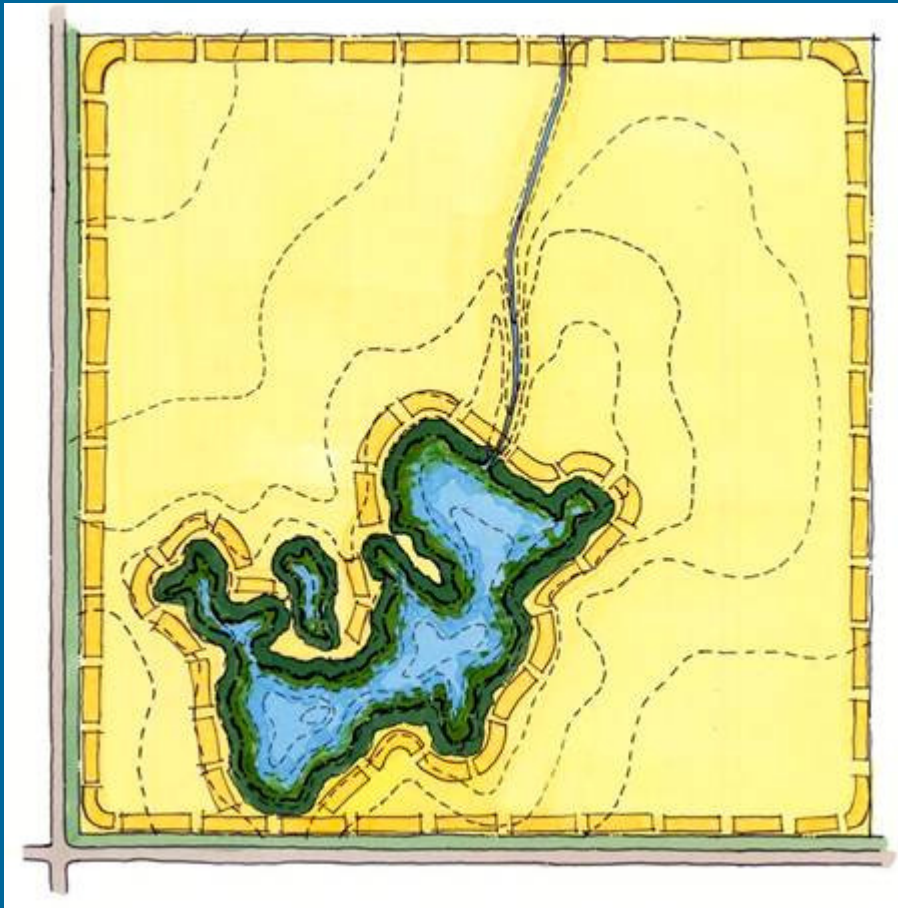


## Conservation

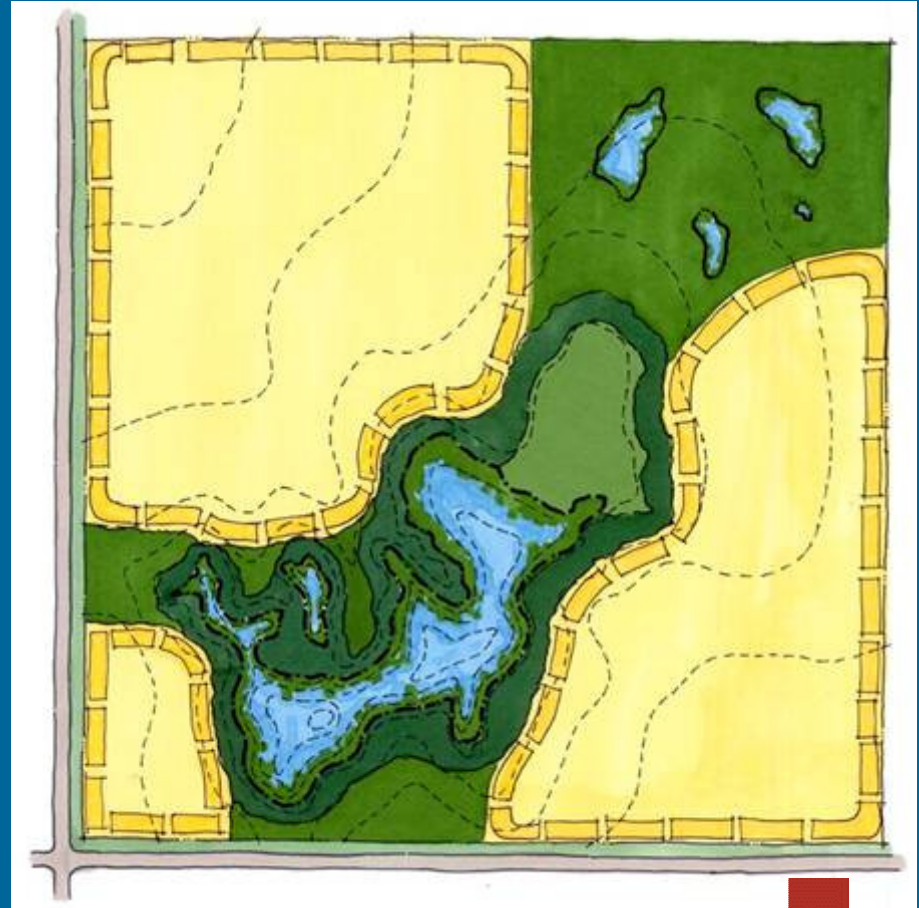


# Wetland Template

## Conventional



## Conservation



# Watershed Evaluation

- TQmean – Proportion of time that flow is greater than mean flow – higher is better
- 7-Day, 10-Year Low Flow – higher is better
- 1-Year Discharge Rate – Channel forming flow – lower is better

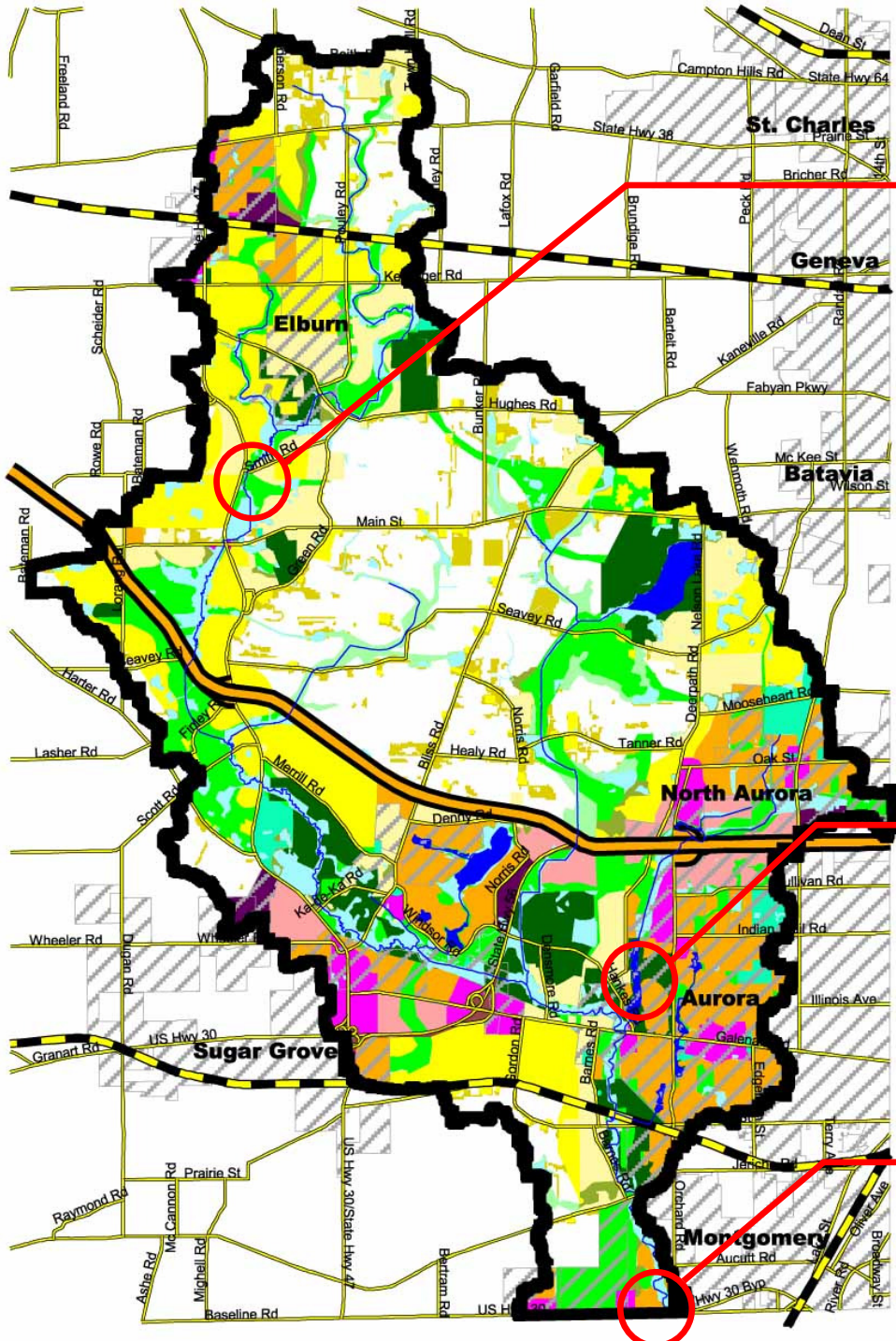


# Evaluation Points

Smith Road

East Run

County Line



## LEGEND

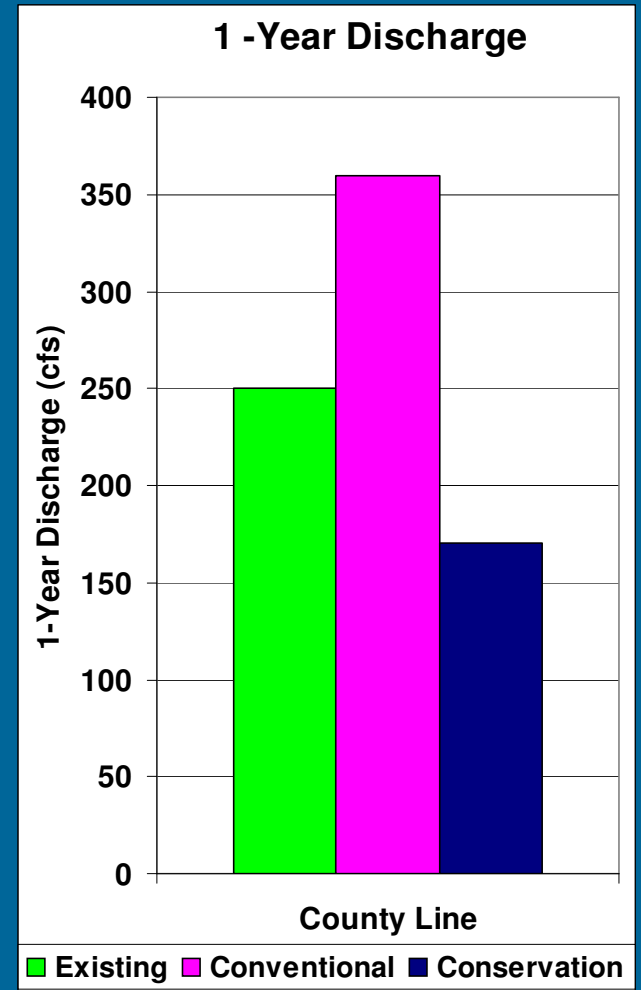
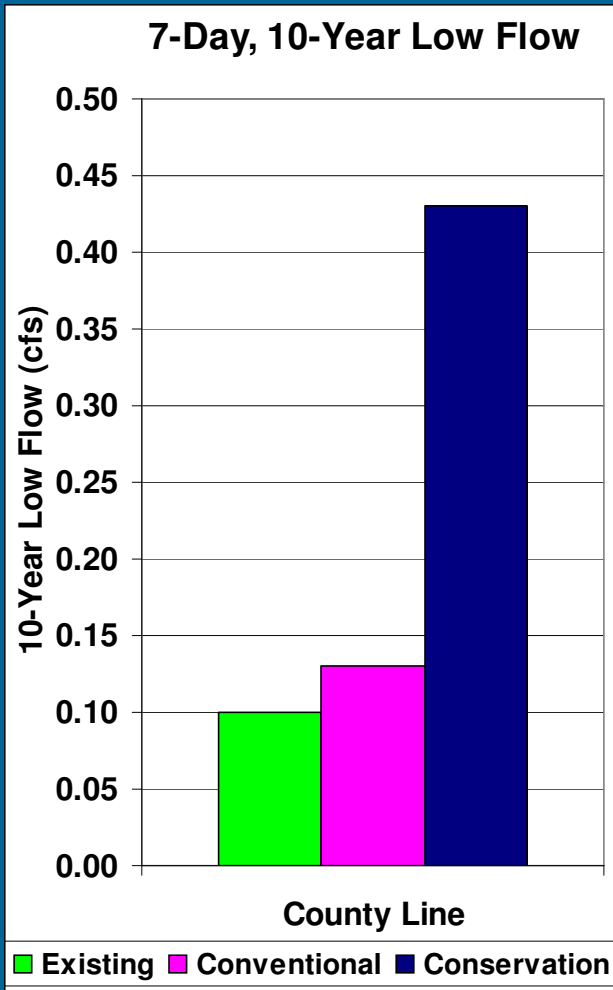
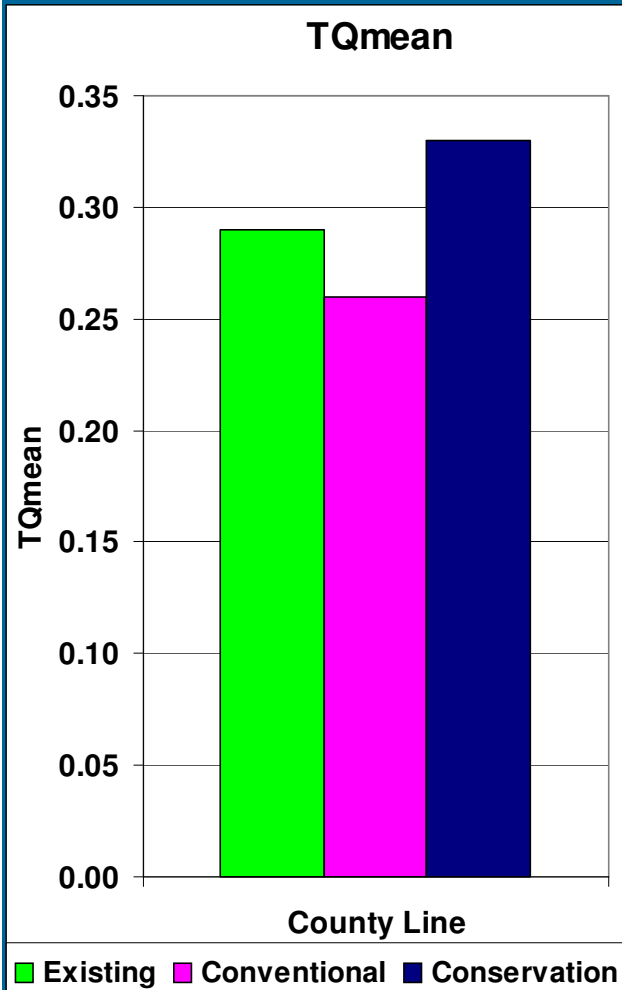
- Watershed Boundary
- Blackberry Creek
- Metra Rail Road
- Highway
- Major Road
- Municipalities

## Conservation Scenario Land Use

- Commercial
- Industrial
- Office/Research
- Institutional
- Transportation
- Urban Residential
- Rural Residential
- Estate Residential
- Agriculture
- Existing Rural Grassland
- Forest Preserve
- Proposed Open Space
- Agriculture Resource Buffer
- Additional Open Space
- Wetland
- Water



# County Line Evaluation Results



## ***Blackberry Creek Watershed***



### *Zoning Code Analysis and Ordinance Language Recommendations*

April 2004

#### Final Reports:

City of Aurora  
City of Batavia  
Village of Elburn  
Kane County  
Kendall County  
Village of Montgomery  
Village of North Aurora  
Village of Sugar Grove  
City of Yorkville

funded by:



Illinois Department of Natural Resources

prepared for:



Kane County, Illinois

prepared by:

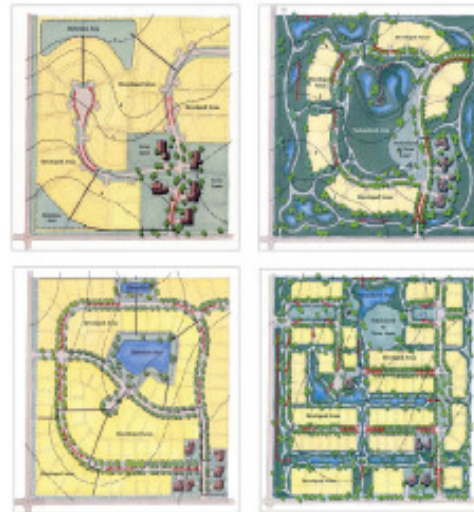


CONSERVATION DESIGN FORUM



**Blackberry Creek Watershed  
Alternative Futures Fiscal Impact Study  
Kane County, Illinois**

March 2004



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